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BIRCH STEWART KOLASCH & BIRCH			JIMENEZ, MARC QUEMUEL		
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TABLE CITY	31.011, 111 22 010 0717	3726			
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Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 4, 5 and 7-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites "said low polar ozone-resistant rubber" which lacks proper antecedent basis.

Claim 5 recites "said low polar ozone-resistant rubber" which lacks proper antecedent basis.

Claims 7-10 recite methods of testing the roller. However, the invention is directed to a roller per se. Therefore, the limitations of claims 7-10 are unclear as to how testing of the roller adds further structural limitations to the roller.

Claim 10 recites "said conductive foamed elastic layer" in line 12 which lacks proper antecedent basis. The limitations of claim 10 are unclear as written. For example, in lines 3-4, the limitation "composition comprising a rubber component, composing a main component of said polymer composition, consisting of a mixture of ethylene-propylene-diene terpolymer (EPDM) and acrylonitrile butadiene rubber (NBR)" is unclear.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

subsection of an application filed in the United States only if the international application designated the United

States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-9 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Harada

(US6697587).

Harada teaches a conductive roller comprising at least one conductive elastic

layer (figure 2), the conductive elastic layer formed of a polymer composition comprising:

a main-component polymer not containing chlorine nor bromine and containing polyether or/and

a cyan group (col. 6, lines 44-67, "rubber A") and an anion-containing salt having a fluoro group

and a sulfonyl group (col. 5, lines 55-60, "lithium trifluoromethane sulfonate" is a

fluoroalkylsulfonic acid salt that contains both sulfonyl and fluoro groups), wherein the anion-

containing salt having the fluoro group and the sulfonyl group includes at least one salt selected

from among a salt of bisfluoroalkylsulfonylimide, a salt of fluoroalkylsulfonic acid (col. 5, lines

55-60), and a salt of tris (fluoroalkylsulfonyl) methide.

Regarding claim 2, the "rubber A" described in Harada has 20 wt% to 90wt% (col. 9,

lines 34-40).

Regarding claims 3 and 4, the "rubber B" described in Harada is considered a "low polar ozone-resistant rubber" as claimed (see col. 6, lines 44-49). Also, Harada discloses the use of the claimed polymers (col. 5, lines 30-37 and col. 6, lines 50-62).

Regarding claim 5, note that EPDM rubber is used (col. 6, line 48) in the wt% claimed (col. 9, lines 37-38).

Regarding claim 6, note that carbon black is used as a filler (col. 7, line 18).

Regarding claim 7, note that Harada teaches the claimed resistance value (col. 5, lines 39-40).

Regarding claim 9, Harada teaches a hardness not more than 70 degrees (col. 10, lines 14-15).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 7-9 alternatively rejected under 35 U.S.C. 103(a) as being unpatentable over Harada.

Regarding the physical properties claimed, one of ordinary skill in the art, at the time of the invention, would have found it obvious that a reasonable basis exists to believe that the prior art materials would display the claimed properties because the prior art material has essentially

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the same composition as those claimed. In addition, products of identical chemical composition can not have mutually exclusive properties. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ 1655, 1658 (Fed. Cir. 1990). Also, since the PTO cannot perform experiments, the burden is shifted to Applicant to establish an unobvious difference. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

7. Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harada in view of Takagi et al. (US6067434).

Harada teaches the invention cited above with the exception of having a chemical foaming agent.

Takagi et al. teach a chemical foaming agent (col. 4, line 5) in combination with EPDM, a molded resin and a conductive material.

It would have been obvious to one of ordinary skill in the art, at the time of the invention. to have provided the invention of Harada with a chemical foaming agent, in light of the teachings of Takagi et al., in order to provide a roller having the desired resistivity as suggested by Takagi et al. at col. 4, line 10.

Regarding the physical properties claimed, one of ordinary skill in the art, at the time of the invention, would have found it obvious that a reasonable basis exists to believe that the prior art materials would display the claimed properties because the prior art material has essentially

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the same composition as those claimed. In addition, products of identical chemical composition can not have mutually exclusive properties. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ 1655, 1658 (Fed. Cir. 1990). Also, since the PTO cannot perform experiments, the burden is shifted to Applicant to establish an unobvious difference. *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

Regarding the claimed ranges of weight ratio, see col. 9, lines 35-37 of Harada.

Regarding claims 12-14, the particular type of chemical foaming agent used and in the amounts claimed is considered an obvious matter of design choice to a person of ordinary skill in the art, depending upon the desired characteristics needed of the roller. At the time of the invention, it would have been an obvious matter of design choice to a person of ordinary skill in the art, to have used the claimed foaming agent because applicant has not disclosed that the claimed foaming provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicant's invention to perform equally well with either the foaming agent taught by Takagi et al. or the claimed foaming agent because either foaming agent perform the same function of creating a conductive roller equally well. In addition, the use of the claimed foaming agent and in the amounts claimed is well known to a person of ordinary skill in the art, since there are various types of foaming agents used in making conductive rollers.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number is (571) 272-4530. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Marc Jimenez, Primary Examiner

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MJ

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